

SEQUENCE LISTING

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<120> Novel Chemokine for Mobilizing Stem Cells

<130> PF497D2

<150> 09/567,225

<151> 2000-05-09

<150> US 09/225,501

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<150> US 60/006,051

<151> 1995-10-24

<150> US 08/740,033

<151> 1996-10-23

<160> 19

<170> PatentIn version 3.0

<210> 1

<211> 72

<212> PRT

<213> CKBeta-1

<400> 1

Thr	Lys	Thr	Glu	Ser	Ser	Ser	Arg	Gly	Pro	Tyr	His	Pro	Ser	Glu	Cys
1				5					10					15	
Cys	Phe	Thr	Tyr	Thr	Thr	Tyr	Lys	Ile	Pro	Arg	Gln	Arg	Ile	Met	Asp
			20					25					30		
Tyr	Tyr	Glu	Thr	Asn	Ser	Gln	Cys	Ser	Lys	Pro	Gly	Ile	Val	Phe	Ile
		35					40					45			
Thr	Lys	Arg	Gly	His	Ser	Val	Cys	Thr	Asn	Pro	Ser	Asp	Lys	Trp	Val
	50					55					60				
Gln	Asp	Tyr	Ile	Lys	Asp	Met	Lys								
65					70										

<210> 2

<211> 70

<212> PRT

<213> CKBeta-4

<400> 2

Ala	Ser	Asn	Phe	Asp	Cys	Cys	Leu	Gly	Tyr	Thr	Asp	Arg	Ile	Leu	His
1				5					10					15	
Pro	Lys	Phe	Ile	Val	Gly	Phe	Thr	Arg	Gln	Leu	Ala	Asn	Glu	Gly	Cys
			20					25					30		
Asp	Ile	Asn	Ala	Ile	Ile	Phe	His	Thr	Lys	Lys	Lys	Leu	Ser	Val	Cys
		35					40					45			
Ala	Asn	Pro	Lys	Gln	Thr	Trp	Val	Lys	Tyr	Ile	Val	Arg	Leu	Leu	Ser
	50					55					60				
Lys	Lys	Val	Lys	Asn	Met										
65					70										

<210> 3

<211> 70

<212> PRT

<213> CKBeta-6

<400> 3

Val	Val	Ile	Pro	Ser	Pro	Cys	Cys	Met	Phe	Phe	Val	Ser	Lys	Arg	Ile
1				5					10					15	
Pro	Glu	Asn	Arg	Val	Val	Ser	Tyr	Gln	Leu	Ser	Ser	Arg	Ser	Thr	Cys
		20						25					30		
Leu	Lys	Gly	Gly	Val	Ile	Phe	Thr	Thr	Lys	Lys	Gly	Gln	Gln	Phe	Cys
		35					40					45			
Gly	Asp	Pro	Lys	Gln	Glu	Trp	Val	Gln	Arg	Tyr	Met	Lys	Asn	Leu	Asp
	50					55					60				
Ala	Lys	Gln	Lys	Lys	Ala										
65					70										

<210> 4

<211> 60

<212> PRT

<213> CKBeta-7

<400> 4

Ala	Gln	Val	Gly	Thr	Asn	Lys	Glu	Leu	Cys	Cys	Leu	Val	Tyr	Thr	Ser
1				5					10					15	
Trp	Gln	Ile	Pro	Gln	Lys	Phe	Ile	Val	Asp	Tyr	Ser	Glu	Thr	Ser	Pro
			20					25					30		
Gln	Cys	Pro	Lys	Pro	Gly	Val	Ile	Leu	Leu	Thr	Lys	Arg	Gly	Arg	Gln
		35					40					45			
Ile	Cys	Ala	Asp	Pro	Asn	Lys	Lys	Trp	Val	Gln	Lys				
	50					55					60				

<210> 5

<211> 82

<212> PRT

<213> CKBeta-8

<400> 5

Glu	Asn	Pro	Val	Leu	Leu	Asp	Arg	Phe	His	Ala	Thr	Ser	Ala	Asp	Cys
1				5					10					15	
Cys	Ile	Ser	Tyr	Thr	Pro	Arg	Ser	Ile	Pro	Cys	Ser	Leu	Leu	Glu	Ser
			20					25					30		
Tyr	Phe	Glu	Thr	Asn	Ser	Glu	Cys	Ser	Lys	Pro	Gly	Val	Ile	Phe	Leu
		35					40					45			

Thr Lys Lys Gly Arg Arg Phe Cys Ala Asn Pro Ser Asp Lys Gln Val  
 50 55 60

Gln Val Cys Met Arg Met Leu Lys Leu Asp Thr Arg Ile Lys Thr Arg  
 65 70 75 80

Lys Asn

<210> 6

<211> 79

<212> PRT

<213> CKBeta-9

<400> 6

Ser Asp Ala Gly Gly Ala Gln Asp Cys Cys Leu Lys Tyr Ser Gln Arg  
 1 5 10 15

Lys Ile Pro Ala Lys Val Val Arg Ser Tyr Arg Lys Gln Glu Pro Ser  
 20 25 30

Leu Gly Cys Ser Ile Pro Ala Ile Leu Phe Leu Pro Arg Lys Arg Ser  
 35 40 45

Gln Ala Glu Leu Cys Ala Asp Pro Lys Glu Leu Trp Val Gln Gln Leu  
 50 55 60

Met Gln His Leu Asp Lys Thr Pro Ser Pro Gln Lys Pro Ala Gln  
 65 70 75

<210> 7

<211> 82

<212> PRT

<213> CKBeta-10

<400> 7

Phe Asn Pro Gln Gly Leu Ala Gln Pro Asp Ala Leu Asn Val Pro Ser  
 1 5 10 15

Thr Cys Cys Phe Thr Phe Ser Ser Lys Lys Ile Ser Leu Gln Arg Leu  
 20 25 30

Lys Ser Tyr Val Ile Thr Thr Ser Arg Cys Pro Gln Lys Ala Val Ile  
 35 40 45

Phe Arg Thr Lys Leu Gly Lys Glu Ile Cys Ala Asp Pro Lys Glu Lys  
 50 55 60

Trp Val Gln Asn Tyr Met Lys His Leu Gly Arg Lys Ala His Thr Leu  
 65 70 75 80

Lys Thr

<210> 8

<211> 83

<212> PRT

<213> CKBeta-11

<400> 8

Pro Ala Pro Thr Leu Ser Gly Thr Asn Asp Ala Glu Asp Cys Cys Leu  
 1 5 10 15

Ser Val Thr Gln Lys Pro Ile Pro Gly Tyr Ile Val Arg Asn Phe His  
 20 25 30

Tyr Leu Leu Ile Lys Asp Gly Cys Arg Val Pro Ala Val Val Phe Thr  
 35 40 45

Thr Leu Arg Gly Arg Gln Leu Cys Ala Pro Pro Asp Gln Pro Trp Val  
 50 55 60

Glu Arg Ile Ile Gln Arg Leu Gln Arg Thr Ser Ala Lys Met Lys Arg  
 65 70 75 80

Arg Ser Ser

<210> 9

<211> 82

<212> PRT

<213> CKBeta-12

<400> 9

Arg Ser Gln Pro Lys Val Pro Glu Trp Val Asn Thr Pro Ser Thr Cys  
 1 5 10 15

Cys Leu Lys Tyr Tyr Glu Lys Val Leu Pro Arg Arg Leu Val Val Gly  
 20 25 30

Tyr Arg Lys Ala Leu Asn Cys His Leu Pro Ala Ile Ile Phe Val Thr  
 35 40 45

Lys Arg Asn Arg Glu Val Cys Thr Asn Pro Asn Asp Asp Trp Val Gln  
 50 55 60

Glu Tyr Ile Lys Asp Pro Asn Leu Pro Leu Leu Pro Thr Arg Asn Leu  
65 70 75 80

Ser Thr

<210> 10

<211> 68

<212> PRT

<213> CKBeta-13

<400> 10

Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr Val  
1 5 10 15

Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr Ser  
20 25 30

Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp Lys  
35 40 45

Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu Asn  
50 55 60

Lys Leu Ser Gln  
65

<210> 11

<211> 69

<212> PRT

<213> hRANTES

<400> 11

Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro Cys Cys Phe Ala Tyr Ile  
1 5 10 15

Ala Arg Pro Leu Pro Arg Ala His Ile Lys Glu Tyr Phe Tyr Thr Ser  
20 25 30

Gly Lys Cys Ser Asn Pro Ala Val Val Phe Val Thr Arg Lys Asn Arg  
35 40 45

Gln Val Cys Ala Asn Pro Glu Lys Lys Trp Val Arg Glu Tyr Ile Asn  
50 55 60

Ser Leu Glu Met Ser  
65

<210> 12

<211> 69

<212> PRT

<213> mMIP-1alpha

<400> 12

Ala	Pro	Tyr	Gly	Ala	Asp	Thr	Pro	Thr	Ala	Cys	Cys	Phe	Ser	Tyr	Ser
1				5					10					15	

Arg	Lys	Ile	Pro	Arg	Gln	Phe	Ile	Val	Asp	Tyr	Phe	Glu	Thr	Ser	Ser
			20					25					30		

Leu	Cys	Ser	Gln	Pro	Gly	Val	Ile	Phe	Leu	Thr	Lys	Arg	Asn	Arg	Gln
		35					40					45			

Ile	Cys	Ala	Asp	Ser	Lys	Glu	Thr	Trp	Val	Gln	Glu	Tyr	Ile	Thr	Asp
	50					55					60				

Leu	Glu	Leu	Asn	Ala
65				

<210> 13

<211> 69

<212> PRT

<213> mMIP-1beta

<400> 13

Ala	Pro	Met	Gly	Ser	Asp	Pro	Pro	Thr	Ser	Cys	Cys	Phe	Ser	Tyr	Thr
1				5					10					15	

Ser	Arg	Gln	Leu	His	Arg	Ser	Phe	Val	Met	Asp	Tyr	Tyr	Glu	Thr	Ser
			20					25					30		

Ser	Leu	Cys	Ser	Lys	Pro	Ala	Val	Val	Phe	Leu	Thr	Lys	Arg	Gly	Arg
		35					40					45			

Gln	Ile	Cys	Ala	Asn	Pro	Ser	Glu	Pro	Trp	Val	Thr	Glu	Tyr	Met	Ser
	50					55						60			

Asp	Leu	Glu	Leu	Asn
65				

<210> 14

<211> 78

<212> PRT

<213> MCP-1

<400> 14

Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn  
1 5 10 15

Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg  
20 25 30

Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile  
35 40 45

Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp  
50 55 60

Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
65 70 75

<210> 15

<211> 82

<212> PRT

<213> MCP-3

<400> 15

Ser Pro Gln Gly Leu Ala Gln Pro Val Gly Ile Asn Thr Ser Thr Thr  
1 5 10 15

Cys Cys Tyr Arg Phe Ile Asn Lys Lys Ile Pro Lys Gln Arg Leu Glu  
20 25 30

Ser Tyr Arg Arg Thr Thr Ser Ser His Cys Pro Arg Glu Ala Val Ile  
35 40 45

Phe Lys Thr Lys Leu Asp Lys Glu Ile Cys Ala Asp Pro Thr Gln Lys  
50 55 60

Trp Val Gln Asp Phe Met Lys His Leu Asp Lys Lys Thr Gln Thr Pro  
65 70 75 80

Lys Leu

<210> 16

<211> 72

<212> PRT

<213> NAP-1/IL-8



<400> 16

Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro  
1 5 10 15  
Phe His Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro  
20 25 30  
His Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu  
35 40 45  
Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu Lys  
50 55 60  
Phe Leu Lys Arg Ala Glu Asn Ser  
65 70

<210> 17

<211> 71

<212> PRT

<213> NAP-2

<400> 17

Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro  
1 5 10 15  
Lys Asn Ile Gln Ser Leu Glu Val Val Ile Gly Lys Gly Thr His Cys  
20 25 30  
Asn Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys  
35 40 45  
Leu Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu  
50 55 60  
Ala Gly Asp Glu Ser Ala Asp  
65 70

<210> 18

<211> 69

<212> PRT

<213> hPF4

<400> 18

Glu Ala Glu Glu Asp Gly Asp Leu Gln Cys Leu Cys Val Lys Thr Thr  
1 5 10 15

Ser Gln Val Arg Pro Arg His Ile Thr Ser Leu Glu Val Ile Lys Ala  
 20 25 30

Gly Pro His Cys Pro Thr Ala Gln Leu Ile Ala Thr Leu Lys Asn Gly  
 35 40 45

Arg Lys Ile Cys Leu Asp Leu Gln Ala Pro Leu Tyr Lys Lys Ile Leu  
 50 55 60

Lys Lys Leu Glu Ser  
 65

<210> 19

<211> 72

<212> PRT

<213> CKAlpha-1

<400> 19

Val Leu Glu Val Tyr Tyr Thr Ser Leu Arg Cys Arg Cys Val Gln Glu  
 1 5 10 15

Ser Ser Val Phe Ile Pro Arg Arg Phe Ile Asp Arg Ile Gln Ile Leu  
 20 25 30

Pro Arg Gly Asn Gly Cys Pro Arg Lys Glu Ile Ile Val Trp Lys Lys  
 35 40 45

Asn Lys Ser Ile Val Cys Val Asp Pro Gln Ala Glu Trp Ile Gln Arg  
 50 55 60

Met Met Glu Val Leu Arg Lys Arg  
 65 70